

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P258775

Luminaire Tested: **14CZ-LD5-25-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-S-UNV-L82765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2451.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

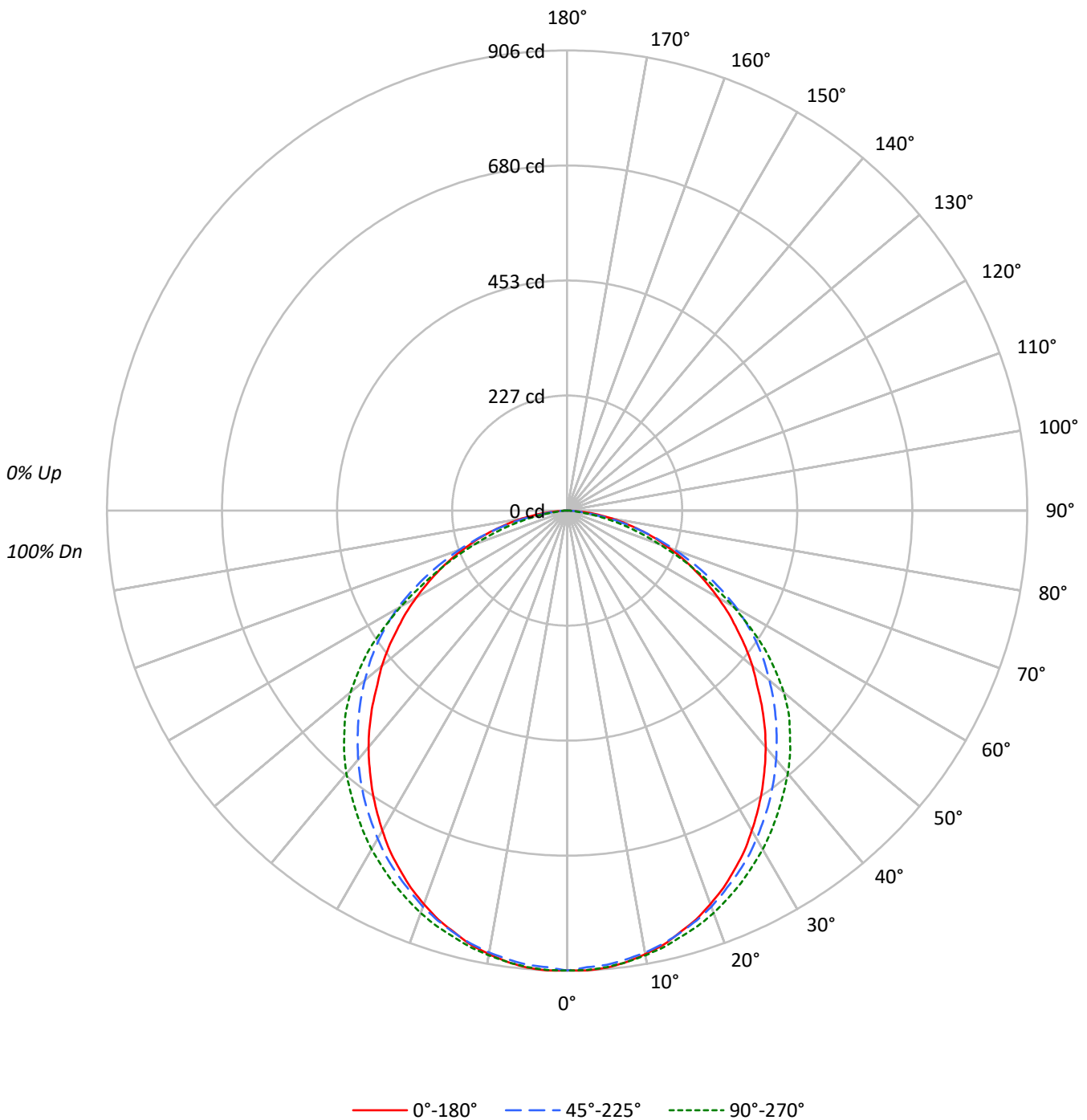
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85																												
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71																												
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60																												
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																												
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																												
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																												
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																												
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31																												
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28																												
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2436	2436	2436
5°	2440	2425	2437
10°	2423	2414	2429
15°	2394	2398	2419
20°	2361	2377	2414
25°	2315	2348	2403
30°	2260	2318	2393
35°	2199	2285	2379
40°	2137	2248	2375
45°	2062	2211	2361
50°	1994	2177	2332
55°	1917	2142	2229
60°	1845	2081	2034
65°	1766	1947	1787
70°	1667	1770	1512
75°	1555	1533	1249
80°	1371	1185	914
85°	1078	574	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	3.5
10°-20°	243.7	9.9
20°-30°	365.8	14.9
30°-40°	436.1	17.8
40°-50°	449.2	18.3
50°-60°	400.3	16.3
60°-70°	288.4	11.8
70°-80°	150.8	6.2
80°-90°	31.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	695.0	28.4
0°-40°	1131.1	46.1
0°-60°	1980.5	80.8
0°-90°	2451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	903	901	898	903	902	86
15°	860	861	861	869	868	243
25°	780	784	791	806	809	359
35°	670	678	696	719	724	419
45°	542	554	581	614	620	418
55°	408	422	456	477	475	366
65°	277	287	306	292	281	275
75°	150	157	147	128	120	159
85°	35	31	19	16	16	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.4	905.4	905.4	905.4	905.4
2.5°	906.5	904.3	899.9	905.4	905.4
5°	903.2	901.0	897.8	903.2	902.1
7.5°	896.7	894.5	891.2	897.8	896.7
10°	886.8	885.7	883.6	890.1	889.0
12.5°	875.9	874.8	873.7	880.3	880.3
15°	859.5	860.6	860.6	869.4	868.3
17.5°	844.2	845.3	846.4	857.3	857.3
20°	824.6	825.7	830.0	842.1	843.1
22.5°	803.8	804.9	810.4	824.6	826.8
25°	779.8	784.2	790.7	806.0	809.3
27.5°	755.8	759.1	770.0	787.4	789.6
30°	727.4	733.9	745.9	765.6	770.0
32.5°	699.0	706.6	720.8	742.7	748.1
35°	669.5	678.2	695.7	718.6	724.1
37.5°	638.9	646.6	668.4	692.4	700.1
40°	608.3	616.0	640.0	667.3	676.0
42.5°	575.6	586.5	610.5	641.1	649.8
45°	541.7	553.7	581.0	613.8	620.3
47.5°	506.8	519.9	551.5	584.3	592.0
50°	476.2	488.2	519.9	551.5	557.0
52.5°	443.4	454.3	489.3	515.5	516.6
55°	408.5	421.6	456.5	477.3	475.1
57.5°	376.8	387.7	421.6	432.5	425.9
60°	342.9	352.8	386.6	387.7	377.9
62.5°	310.2	320.0	346.2	338.6	326.6
65°	277.4	287.2	305.8	291.6	280.7
67.5°	245.7	254.5	265.4	246.8	235.9
70°	211.9	223.9	225.0	203.1	192.2
72.5°	182.4	188.9	186.8	166.0	156.2
75°	149.6	157.3	147.4	127.8	120.1
77.5°	119.0	124.5	111.4	92.8	87.4
80°	88.5	91.7	76.5	62.3	59.0
82.5°	60.1	60.1	43.7	33.9	30.6
85°	34.9	30.6	18.6	16.4	16.4
87.5°	12.0	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)